

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM000030E**

This is to certify:

That

Bertoloni & Botturi S.r.l.

Via Emblegna, 24/26, 25085 Gavardo BS, Italy

is an approved manufacturer of **Steel Forgings**

in accordance with

DNV rules for classification - Ships

and the following particulars:

Application area Forgings for shafting and machinery,

Forgings for gearing,

Forgings for boilers, pressure vessels and piping systems

Steel type Alloy,

See page 2

Forging method Closed die forging,

See page 2

Max. weight See page 2
Max. diameter / section
Heat treatment condition See page 2
See page 2

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at Hamburg on 2022-11-29

This Certificate is valid until 2025-11-28.

DNV local unit: Italy/Malta CMC

Approval Engineer: Christian Wildhagen

for **DNV**

Thorsten Lohmann Head of Section

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Particulars of the approval

Forgings for shafting and machinery

Forgings for gearing

Steel type	Grade ³⁾	Forging method 1)	Max. weight [kg]	Max. diameter / section [mm]	Heat treatment condition ²⁾
Alloy	NV F600A, NV F700A, NV F800A, NV F900A, NV F1000A, NV F1100A	CD	150	800	QT

Forgings for boilers, pressure vessels and piping systems

Steel type	Grade ³⁾	Forging method 1)	Max. weight [kg]	Max. diameter / section [mm]	Heat treatment condition ²⁾
Alloy	NV F0.5Mo, NV F1Cr0.5Mo	CD	150	800	NT, QT
	NV F2.25Cr1Mo	CD	150	800	N, QT

Remarks:

1) CD: Closed die forging

2) QT: Quenched and tempered
3) Incl. equivalent grades in acc. to other standards

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